

Real-time Asset Tracker

Advanced rechargeable battery powered tracker for wide ranging applications

KnightX 300 4G

LTE CAT-M1 and GSM assets tracking device for wide ranging applications



- Compact Size
- Waterproof IP67
- Wifi Positioning
- External Temperature Probe (Optional)
- Low Battery Alarm
- Data Security & Encryption Option (MD5/AES128)
- Panic Button
- Motion Detection
- MQTT Support
- BLE 5.1 for Wireless Sensors

165g (5.85oz)

-20℃ ~ +80℃
(-4℉ ~ +176℉)

91.8mm × 43.5mm × 29.2mm
(3.61" × 1.71" × 1.14")

Rechargeable Li-Polymer battery
6400 mAh/3.7V

Standby Time

(2 Hours Active Tracking per Day)

10 Minuets Reporting	146 Days
5 Minuets Reporting	96 Days
1 Minuet Reporting	44 Days

*Assumes the device operates on LTE Cat-M1, with CSQ greater than 15, ambient temperature of 25℃ and without working with any sensors.

Battery life in different environment varies.
Refer to Battery Calculator for more details.

Certificates (Completed):

*Please reach out to us if you need any certificates in particular

Cargo Tracking



People Tracking



Vehicle Tracking



PRODUCT SPECIFICATIONS

Network Specifications	
Operating Band	LTE FDD Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 LTE FDD Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 GSM/EDGE: 850/900/1800/1900 MHz
Data Transmission	eMTC: Max. 300Kbps (DL), Max. 375Kbps (UL) EDGE: Max. 396Kbps (DL), Max. 236.8Kbps (UL) GPRS: Max. 107Kbps (DL), Max. 85.6Kbps (UL)
GNSS Specifications	
GPSChipset	All-In-One GNSS Recei ver
Parallel GNSS	GPS + Glonass + Beidou + Galileo +QZSS
Receiver type	47 tracking/ 47 acquisitions -channel GNSS receiver
Sensitivity	Acquisition: -147 dBm Reacquisition: -159 dBm Tracking: -166 dBm
Horizontal Position Accuracy	Autonomous:< 1.5 m CEP
TIFF@ -130 dBm with (without) EPO	Cold Start:< 15s (30s) Warm Start:< 2s (25s) Hot Start:< 2s (2s)
Interfaces	
GNSS	Internal
Indicator LED	Network and GNSS and Power
FOTA	Yes
Temperature Sensor	1 temperature sensor (Internal)
External Sensor	Optional (more details please check with sales)
BLE 5.1	Yes
WiFi	2.4 GHz 802.11b (Rx)
Sim Card	Nano Sim Card
Tracker Configuring	TypeC Connector
Panic Button	Support
General Specifications	
Ingress Protection Rating	IP67
Dimensions	91.8mm*43.5mm*29.2mm(3.61"*1.71"*1.14")
Weight	165g(5.85oz)
Battery	Lithium-ion 6400mAh/ 3.7V
Standby Time (2 hours active tracking per day)	10 minutes reporting 134 days @temperature = 25°C 5 minutes reporting 88 days@ temperature = 25°C 1 minute reporting 71 days @temperature = 25°C
Charging Voltage	5VDC
Operating Temperature	-20°C~80°C (-4°F~176°F)
Storage Temperature	-40°C~+85°C(-40°F~185°F)
Air Interface Protocol	
Transmit Protocol	TCP, UDP, MQTT, SMS
Protocol Check & Encryption Support	MD5/ AES128
BLE Accessory Support	Yes
Scheduled Timing/angle/distance Report	Report position and status at preset intervals
Low Power Alarm	Report when backup battery is low
Data Roaming Control	Avoid additional data consumption

OPTIONAL ACCESSORIES LIST

Product SKU	Description	Photo for Reference
TA54	USB-A to USB-C cable	
TA70	USB-C to USB-C cable	
TA62	KnightX plastic bracket with screws (for screw, tape and zip tie mounting)	
TA62 / TA60	KnightX plastic bracket (TA62)+ magnet (TA60)	
TA57	mperature probe (customizable length) range -67°F~300°F (-55°C~ 150°C)	
TA53	Belt bag for people tracking	
TSTH1-B	BLE temperature & humidity sensor	
TSDT1-B	BLE Door Sensor	